

## CHM 151IN Laboratory Schedule for Spring 2010

Week of	Days	Experiment
Jan 19-22	Tue-Fri	Meet classes, distribute lab schedules. No experiment
Jan 25 - 29	Mon-Fri	Safety Lecture (NOTE: Safety test given either this week or next week) Check-in Review of lab policies and proper lab techniques and use of laboratory balances.
Feb 1 – 5	Mon-Fri	Safety Test (See NOTE, above) Extraction and Analysis of Plant Dyes: (Lab manual, page 1) Extraction and Filtration of the Dye and Analysis of the Dye Using Thin-layer Chromatography Analysis of the Dye Using Absorption Spectrophotometry Analysis of the Dye by Observation of Acid-base Properties
Feb 8 - 12	Mon-Fri	Determination of an Empirical Formula (Lab manual, page 7)
Feb 15 – 19	Mon-Fri	Precipitation Reactions and Pigments: (Lab manual, page 11) Precipitation Reactions Making a Pigment
Feb 22 – 24	Mon-Wed	Rodeo Week – No experiment
Mar 1-5	Mon-Fri	Determination of Copper in an Alloy (Lab manual, page 39) Exploring the Copper Cycle Determination of Copper Using Wet Chemical Methods
Mar 8 - 12	Mon-Fri	Determination of Ascorbic Acid in a Vitamin C Tablet (Lab Manual, page 21) Standardization of the Base and Determination of Ascorbic Acid by Acid-base Titration
Mar 15 - 19	Mon-Fri	Spring Break – No experiment
Mar 22-26	Mon-Fri	Determination of Ascorbic Acid in a Vitamin C Tablet (Lab Manual, page 21) Determination of Ascorbic Acid by Redox Titration
Mar 29 - Apr 2	Mon-Fri	Determination of Iron in a Multivitamin Tablet (Lab manual, page 45)
Apr 5 – Apr 9	Mon-Fri	Measurement of the Heat Capacity of a Metal (Lab manual, page 53)
Apr 12 – 16	Mon-Fri	Heat of Combustion of Magnesium (Lab Manual, page 61)
Apr 19 – 23	Mon-Fri	Choice Labs
Apr 26 – 30	Mon-Fri	The Ideal Gas Law: Determination of a Molecular Weight (Lab manual, page 35)
May 3 – 7	Mon-Fri	Choice Lab Presentations Final Lab Checkout
May 10 – 11	Mon-Tue	Last two days of classes - No Labs
May 12 - 18	Wed-Tue	Final Exam week – No labs

You are expected to read each experiment and check the safety precautions for all chemicals used in the experiments before coming to class. Your instructor will provide more information on these requirements.

If you are not prepared for lab, you may be asked to leave and will receive a grade of zero for that laboratory experiment.

Laboratory reports follow the format outlined by your lab instructor. Data analysis calculations, graphs, and questions must be completed for each laboratory report.

Reports are due no later than **one week** after the experiment is completed.

Laboratory reports are graded based on neatness, completion of introductory information, completion of data, sample calculations, summary of results and conclusions, and answers to questions. Missed or incomplete experiment reports may be graded as a zero. Choice labs and the presentation count as a double experiment

## LABORATORY SAFETY

Laboratory safety is a major component of working in a chemical laboratory. At the beginning of the semester, you are given a safety lecture and a safety exam.

You must abide by the safety rules during the semester. This includes wearing safety goggles when working with chemicals, wearing closed shoes, not sandals or flip-flops, appropriate dress, and following proper methods of chemical disposal. Non-compliance may result in you being asked to leave the laboratory with a grade of zero for that day.